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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes
NEWS 3	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS 4	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5	AUG 24	CA/CAplus enhanced with legal status information for U.S. patents
NEWS 6	SEP 09	50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
NEWS 7	SEP 11	WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
NEWS 8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
NEWS 9	OCT 21	Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
NEWS 10	NOV 23	Addition of SCAN format to selected STN databases
NEWS 11	NOV 23	Annual Reload of IFI Databases
NEWS 12	DEC 01	FRFULL Content and Search Enhancements
NEWS 13	DEC 01	DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS 14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS 15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS 16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS 17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAplus
NEWS 18	JAN 12	Match STN Content and Features to Your Information Needs, Quickly and Conveniently
NEWS 19	JAN 25	Annual Reload of MEDLINE database
NEWS 20	FEB 16	STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download
NEWS 21	FEB 16	Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts
NEWS 22	FEB 16	New FASTA Display Formats Added to USGENE and PCTGEN
NEWS 23	FEB 16	INPADOCDB and INPAFAMDB Enriched with New Content and Features

NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail Addresses

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2, AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:51:53 ON 10 MAR 2010

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.22 0.22

FILE 'REGISTRY' ENTERED AT 10:52:03 ON 10 MAR 2010
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAR 2010 HIGHEST RN 1208308-34-2
DICTIONARY FILE UPDATES: 9 MAR 2010 HIGHEST RN 1208308-34-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

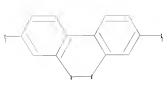
TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

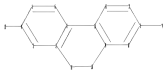
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 6.str





chain nodes :
13 14
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 17 18
chain bonds :
4-13 7-14
ring bonds :
1-2 1-6 1-10 2-3 2-17 3-4 4-5 5-6 7-8 7-12 8-9 9-10 9-18 10-11 11-12
17-18
exact/norm bonds :
1-10 2-17 4-13 7-14 9-18 17-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:Cb,Cy,Hy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 17:Atom 18:Atom

```
L1      STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1              STR
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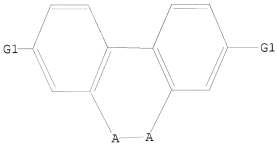



```
G1 Cb,Cy,Hy


Structure attributes must be viewed using STN Express query preparation.

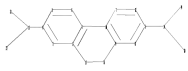

=> l1
SAMPLE SEARCH INITIATED 10:52:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   240572 TO ITERATE

  0.8% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **INCOMPLETE**
                        BATCH    **INCOMPLETE**
PROJECTED ITERATIONS:      4782636 TO  4840244
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=>
Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 7.str
```



chain nodes :
13 14 19 20 21 22
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 17 18
chain bonds :
4-13 7-14 13-21 13-22 14-19 14-20
ring bonds :
1-2 1-6 1-10 2-3 2-17 3-4 4-5 5-6 7-8 7-12 8-9 9-10 9-18 10-11 11-12
17-18
exact/norm bonds :
1-10 2-17 4-13 7-14 9-18 13-21 13-22 14-19 14-20 17-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:Cb,Cy,Hy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 17:Atom 18:Atom 19:CLASS 20:CLASS
21:CLASS 22:CLASS

```
L3      STRUCTURE UPLOADED

=> l3
SAMPLE SEARCH INITIATED 10:53:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   238698 TO ITERATE

  0.8% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **INCOMPLETE**
                        BATCH    **INCOMPLETE**
PROJECTED ITERATIONS:      4745264 TO  4802656
PROJECTED ANSWERS:               0 TO        0

L4            0 SEA SSS SAM L3

=> log h
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.98       1.20

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:53:32 ON 10 MAR 2010

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LOGINID:SSPTAJRK1626

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:56:20 ON 10 MAR 2010
FILE 'REGISTRY' ENTERED AT 10:56:20 ON 10 MAR 2010
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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     1.47       1.69

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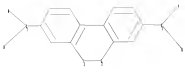
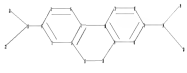




chain nodes :
13 14 19 20 21 22
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 17 18
chain bonds :
4-13 7-14 13-21 13-22 14-19 14-20
ring bonds :
1-2 1-6 1-10 2-3 2-17 3-4 4-5 5-6 7-8 7-12 8-9 9-10 9-18 10-11 11-12
17-18
exact/norm bonds :
1-10 2-17 4-13 7-14 9-18 13-21 13-22 14-19 14-20 17-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

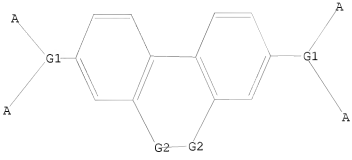
G1:Cb,Cy,Hy

G2:C,O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 17:Atom 18:Atom 19:CLASS 20:CLASS
21:CLASS 22:CLASS

L5 STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5 STR



G1 Cb,Cy,Hy

G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> 15
SAMPLE SEARCH INITIATED 10:56:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 164811 TO ITERATE

1.2% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 3272215 TO 3320225
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> log h
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 1.96 2.18

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:57:07 ON 10 MAR 2010

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LOGINID:SSPTAJRK1626

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:58:09 ON 10 MAR 2010
FILE 'REGISTRY' ENTERED AT 10:58:09 ON 10 MAR 2010
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.96	2.18

=>
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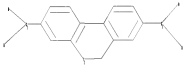
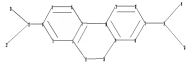




chain nodes :
13 14 19 20 21 22
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 17 18
chain bonds :
4-13 7-14 13-21 13-22 14-19 14-20

ring bonds :
1-2 1-6 1-10 2-3 2-17 3-4 4-5 5-6 7-8 7-12 8-9 9-10 9-18 10-11 11-12 17-18
exact/norm bonds :
1-10 2-17 4-13 7-14 9-18 13-21 13-22 14-19 14-20 17-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

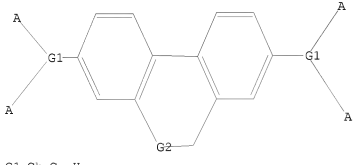
G1:Cb,Cy,Hy

G2:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS

L7 STRUCTURE UPLOADED

=> d
L7 HAS NO ANSWERS
L7 STR



G1 Cb,Cy,Hy
G2 O,N

Structure attributes must be viewed using STN Express query preparation.

=> 17
SAMPLE SEARCH INITIATED 10:58:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 48012 TO ITERATE

4.2% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 947149 TO 973331

```
PROJECTED ANSWERS:               0 TO        0

L8            0 SEA SSS SAM L7

=> 17 full
FULL SEARCH INITIATED 10:58:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   962552 TO ITERATE

100.0% PROCESSED   962552 ITERATIONS                                11 ANSWERS
SEARCH TIME: 00.00.13

L9           11 SEA SSS FUL L7

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    193.50     193.72

FILE 'CAPLUS' ENTERED AT 10:58:50 ON 10 MAR 2010
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FILE COVERS 1907 - 10 Mar 2010  VOL 152 ISS 11
FILE LAST UPDATED: 9 Mar 2010  (20100309/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Dec 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> l9
L10           9 L9

=> d ibib abs hitstr 1-9

L10  ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:         2010:20478  CAPLUS
DOCUMENT NUMBER:          152:134053
```
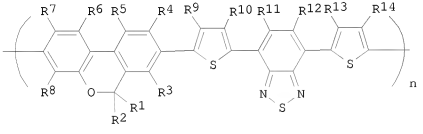

TITLE: Organic photoelectric cells provided with dibenzopyran derivative copolymers
INVENTOR(S): Uetani, Yasunori; Noguchi, Takanobu
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 40pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010001984	A1	20100107	WO 2009-JP62172	20090626
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2010034494	A	20100212	JP 2009-6349	20090115
PRIORITY APPLN. INFO.:			JP 2008-170240 A	20080630
			JP 2009-6349 A	20090115

GI



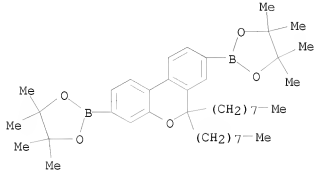
I

AB The functional layer bound between a pair of electrodes in the title organic photoelec. cell comprises (1) an electron donor compound such as fullerene derivs. and (2) an organic semiconductive photoelec. polymer material [I: R1-14 = H, alkyl, alkoxyl, (substd.) aryl, H containing in any such groups may be substd. by F]. The organic photoelec. functional materials provides the photoelec. cells excellent photoelec. conversion efficiency.

IT 688013-75-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(monomer, for organic semiconductive photoelec. polymer; organic photoelec. cells provided with dibenzopyran derivative copolymers)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)

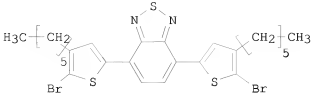


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

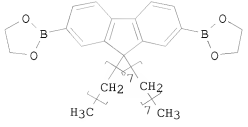
L10 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2009:1533861 CAPLUS
DOCUMENT NUMBER: 152:38288
TITLE: Manufacture of poly(arylenevinylenes) for light-emitting materials
INVENTOR(S): Noguchi, Kiminobu
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 49pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009286890	A	20091210	JP 2008-140563	20080529
PRIORITY APPLN. INFO.:			JP 2008-140563	20080529

GI



I



II

AB Title poly(arylenevinylenes) having structural repeating units (I) CA1:CAr2Ar1 (Ar1 = arylene, divalent heterocyclic group, divalent aromatic amine residue; A1, A2 = H, alkyl, aryl, monovalent heterocyclic group, monovalent aromatic amine residue) and (II) Ar2Ar3 (Ar2, Ar3 = arylene, divalent heterocyclic group, divalent aromatic amine residue) are manufactured by (1) reaction of X1CA1:CA2X2 (A1, A2 = same as in I; X1, X2 = trialkylstannyl) with Y1Ar1Y2 (Ar1 = same as in I; Y1, Y2 = halo, alkylsulfonate, arylsulfonate, arylalkylsulfonate) in the presence of Pd catalysts in organic solvents and (2) reaction of the resulting reaction products with Y3Ar2Y4 (Ar2 = same as in II; Y3, Y4 = halo, alkylsulfonate, arylsulfonate, arylalkylsulfonate) and Y5Ar3Y6 (Ar3 = same as in II; Y5, Y6 = boric acid residue, boric acid ester residue) in the presence of Pd catalysts and bases in the organic solvents. The polymers are useful for electroluminescent materials, displays, transistors, and solar cells. Thus, I was treated with trans-1,2-bis(tributylstannyl)ethylene in the presence of dichlorobis(triphenylphosphine)palladium(II) in toluene and then with II and 5,5'-dibromo-2,2'-bithiophene in the presence of methyltrioctylammonium chloride to give a polymer with polystyrene-based weight-average mol. weight 1.7 + 104 and polystyrene-based number-average mol. weight 6.2 + 103.

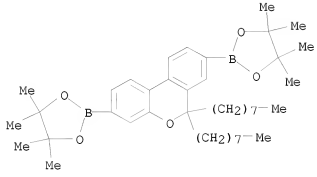
IT 1198601-25-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(easy manufacture of poly(arylenevinylenes) for light-emitting materials)

RN 1198601-25-0 CAPLUS

CN 1,4-Benzenediamine, N1,N4-bis(4-bromophenyl)-N1,N4-bis(4-butylphenyl)-, polymer with 3,8-dibromo-6,6-dioctyl-6H-dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6H-dibenzo[b,d]pyran and 1,1'-(1E)-1,2-ethenediylbis[1,1,1-tributylstannane] (CA INDEX NAME)

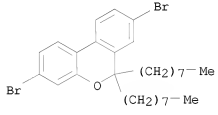
CM 1

CRN 688013-75-4
CMF C41 H64 B2 O5



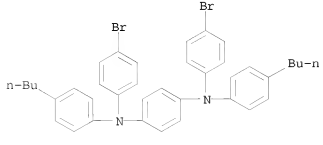
CM 2

CRN 688013-66-3
CMF C29 H40 Br2 O



CM 3

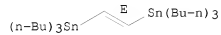
CRN 372200-89-0
CMF C38 H38 Br2 N2



CM 4

CRN 14275-61-7
CMF C26 H56 Sn2

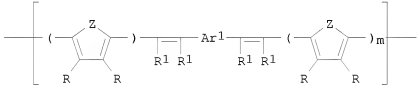
Double bond geometry as shown.



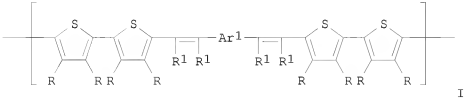
L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2009:422839 CAPLUS
DOCUMENT NUMBER: 150:427188
TITLE: Polyheteroarenes, their compositions and films, organic photoelectric converters and electroluminescent devices with their layers, and monomers for them
INVENTOR(S): Uetani, Yasunori; Noguchi, Kiminobu
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 51pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009073808	A	20090409	JP 2008-115201	20080425
PRIORITY APPLN. INFO.:			JP 2007-223698 A	20070830
OTHER SOURCE(S):	MARPAT 150:427188			

GI



I



II

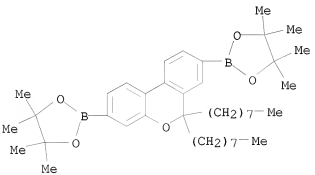
AB The polyheteroarenes have structural repeating units represented by I (R =

H, alkyl, alkoxy, alkylthio, etc.; R1 = H, alkyl, alkoxy, aryl, cyano; Ar1 = arylene, heterocyclylene; Z = O, S; m, n = 2-4), preferably II (R, R1, Ar1 = same as above). Organic photoelec. converters, e.g., solar cells, have layers containing I show high photoelec. conversion efficiency. The photoelec. converters may also use fullerenes as electron acceptors.

IT 688013-75-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(manufacture of polyheteroarenes for organic photoelec. converters and electroluminescent devices from)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



IT 1140830-09-6P 1140830-36-9P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyheteroarenes for organic photoelec. converters and electroluminescent devices)

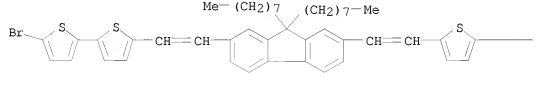
RN 1140830-09-6 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 5,5''-[(9,9-dioctyl-9H-fluorene-2,7-diyl)di-2,1-ethenediyl]bis[5'-bromo-2,2'-bithiophene] (CA INDEX NAME)

CM 1

CRN 1140829-98-6
CMF C49 H52 Br2 S4

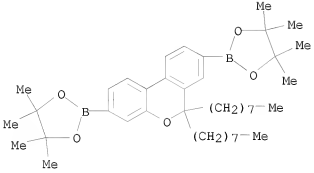
PAGE 1-A



PAGE 1-B

CM 2

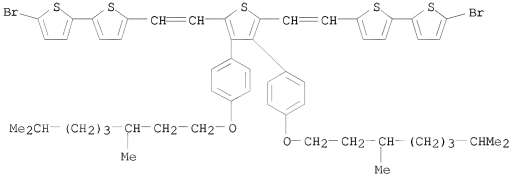
CRN 688013-75-4
CMF C41 H64 B2 O5



RN 1140830-36-9 CAPLUS
CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 5,5''-[[3,4-bis[4-[(3,7-dimethyloctyl)oxy]phenyl]-2,5-thiophenediyl]di-2,1-ethenediyl]bis[5'-bromo-2,2'-bithiophene] (CA INDEX NAME)

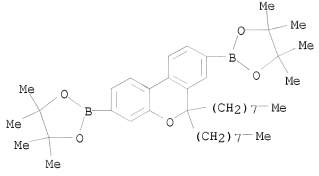
CM 1

CRN 1140830-33-6
CMF C56 H62 Br2 O2 S5



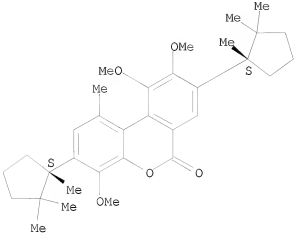
CM 2

CRN 688013-75-4
CMF C41 H64 B2 O5



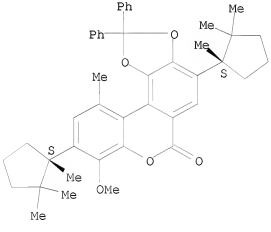
L10 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2008:1383566 CAPLUS
DOCUMENT NUMBER: 149:555080
TITLE: The intramolecular Heck reaction
AUTHOR(S): Link, J. T.
CORPORATE SOURCE: Abbott Laboratories, Abbott Park, IL, USA
SOURCE: Organic Reactions (Hoboken, NJ, United States) (2002), 60, No pp. given
CODEN: ORHNBA
URL: http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal; General Review; (online computer file)
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:555080
AB A review of the article The intramol. Heck reaction.
IT 304859-78-7P 304859-85-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(The Intramol. Heck Reaction)
RN 304859-78-7 CAPLUS
CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 304859-85-6 CAPLUS
CN 6H-[1]Benzopyrano[4,3-e]-1,3-benzodioxol-6-one,
8-methoxy-11-methyl-2,2-diphenyl-4,9-bis[(1S)-1,2,2-trimethylcyclopentyl]-
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



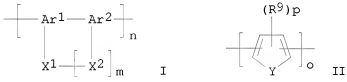
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L10 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:99991 CAPLUS
DOCUMENT NUMBER: 144:172274
TITLE: Polymeric compounds for thin polymer film devices
INVENTOR(S): Ueda, Masato
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006011643	A1	20060202	WO 2005-JP14156	20050727
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006063334	A	20060309	JP 2005-217025	20050727
DE 112005001823	T5	20070606	DE 2005-112005001823	20050727
GB 2432837	A	20070606	GB 2007-3688	20050727
GB 2432837	B	20080820		
CN 1989169	A	20070627	CN 2005-80025103	20050727
US 20080003422	A1	20080103	US 2007-572513	20070123
KR 2007047314	A	20070504	KR 2007-704336	20070223
PRIORITY APPLN. INFO.:			JP 2004-223441 A	20040730
			WO 2005-JP14156 W	20050727

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
GI



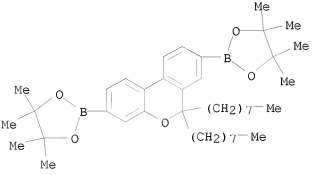
AB Title polymeric compds. with number average mol. weight 103-108 comprise repeating units I and II, wherein Ar1, Ar2 = independently trivalent aromatic hydrocarbon group or trivalent heterocyclic group; X1, X2 = independently O, S, C(:O), S(:O), or SO2 (X1 ≠ X2); Y = O or S; R9 = halogen, alkyl, or alkyloxy; m = 0 or 1; n, o = 1-6 integer; and p = 0-2 integer. Thus, 6.65 g 2,7-dibromofluorenone was dissolved in 140 mL 1:1 mixture of trifluoroacetic acid/chloroform, sodium perborate monohydrate was added therein, stirred for 20 h, 1.00 g of the resulting 3,8-dibromo-6H-dibenzo[b,d]pyran-6-one was stirred with octyl magnesium bromide, ring-closed with p-toluenesulfonic acid monohydrate, and reacted with bis(pinacolato)diborane to give 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6H-dibenzo[b,d]pyran, 0.62 g of which was reacted with 0.29 g 5,5'-dibromo-2,2'-bithiophene in the presence of tetrakis(triphenylphosphine)palladium for 16.3 h to give a copolymer, 0.2%

solution of the resulting copolymer in chloroform was applied on a poly(3,4-ethylenedioxythiophene)/polystyrenesulfonic acid-coated ITO/glass plate, lithium fluoride, calcium, and aluminum were deposited thereon in this order to give a thin film device, showing short-circuit current 43 μA/cm2 and open circuit voltage 1.75 V.

IT 688013-75-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; polymeric compds. for thin polymer film devices)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



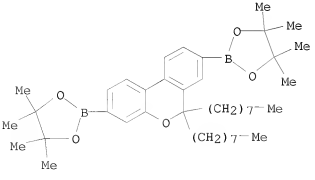
IT 874657-12-2P 874657-15-5P
RL: DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polymeric compds. for thin polymer film devices)

RN 874657-12-2 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 5,5'-dibromo-2,2'-bithiophene (9CI) (CA INDEX NAME)

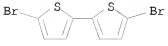
CM 1

CRN 688013-75-4
CMF C41 H64 B2 O5



CM 2

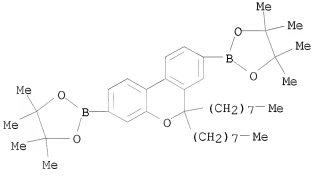
CRN 4805-22-5
CMF C8 H4 Br2 S2



RN 874657-15-5 CAPLUS
CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 2,2'-(1,2-ethenediyl)bis[5-bromothiophene] (9CI) (CA INDEX NAME)

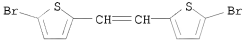
CM 1

CRN 688013-75-4
CMF C41 H64 B2 O5



CM 2

CRN 374684-22-7
CMF C10 H6 Br2 S2



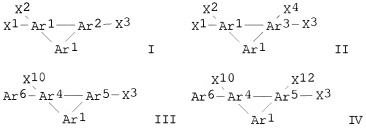
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:324147 CAPLUS

DOCUMENT NUMBER: 142:392812
TITLE: Aromatic compounds having condensationable functional groups useful as monomers
INVENTOR(S): Kobayashi, Satoshi; Mikami, Satoshi
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033090	A1	20050414	WO 2004-JP15001	20041005
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005132829	A	20050526	JP 2004-292337	20041005
US 20070063190	A1	20070322	US 2006-574563	20060404
PRIORITY APPLN. INFO.:			JP 2003-346688 A	20031006
			WO 2004-JP15001 W	20041005

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 142:392812
GI

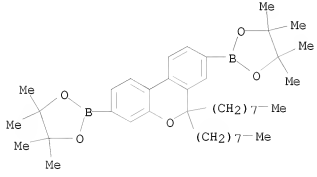


AB The present invention relates to aromatic compds. I, II, III, and IV, wherein Ar1, Ar3 = tetravalent aromatic hydrocarbon or tetravalent heterocyclic group; Ar2, Ar4, Ar5, Ar6, Ar7 = trivalent aromatic hydrocarbon or trivalent heterocyclic group; A1 = Z1, Z2Z3 or Z4:Z5; Z1, Z2, Z3 = O or S; Z4, Z5 = N, B, or P; and X1, X2, X3, X4, X9, X10, X11, X12 = halogen atom. Thus, 7.0 g 2,2',5,5'-tetramethoxy-1,1'-biphenyl was reacted with 6.8 g N-chlorosuccinimide, treated with boron tribromide, 4.8 g of the resulting 4,4'-dichloro-2,2',5,5'-tetrahydroxy-1,1'-biphenyl was treated with o-dichlorobenzene for 13 h to give 3,7-dichloro-2,8-dibenzofurandiol.
IT 688013-75-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(aromatic compds. having condensationable functional groups useful as monomers)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)

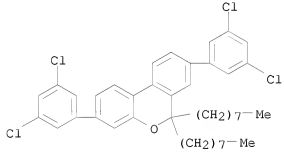


IT 849693-49-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; aromatic compds. having condensationable functional groups useful as monomers)

RN 849693-49-8 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-bis(3,5-dichlorophenyl)-6,6-dioctyl- (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:1128942 CAPLUS

DOCUMENT NUMBER: 142:82001

TITLE: Color conversion film for organic electroluminescent device

INVENTOR(S): Iimura, Kiyotoshi; Doi, Shuji

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004362910	A	20041224	JP 2003-159000	20030604

PRIORITY APPLN. INFO.: JP 2003-159000 20030604

AB The invention relates to a color conversion film, suited for use in an organic electroluminescent device, comprising a fluorescent and/or phosphorescent conjugated polymer.

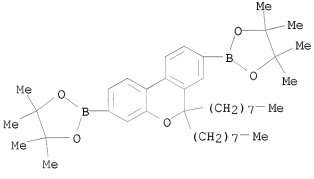
IT 811819-84-8
RL: DEV (Device component use); USES (Uses)
(color conversion film for organic electroluminescent device)

RN 811819-84-8 CAPLUS

CN 2,1,3-Benzothiadiazole, 4,7-bis(5-bromo-4-hexyl-2-thienyl)-, polymer with 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6H-dibenzo[b,d]pyran (9CI) (CA INDEX NAME)

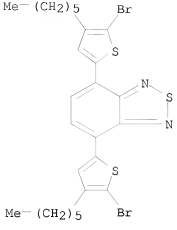
CM 1

CRN 688013-75-4
CMF C41 H64 B2 O5



CM 2

CRN 444579-39-9
CMF C26 H30 Br2 N2 S3



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:392502 CAPLUS
DOCUMENT NUMBER: 140:415047
TITLE: High-molecular compounds and polymer light-emitting devices made by using the same
INVENTOR(S): Doi, Shuji; Kobayashi, Satoshi; Noguchi, Takanobu
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 131 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039859	A1	20040513	WO 2003-JP12697	20031003
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004168999	A	20040617	JP 2003-343244	20031001
AU 2003268752	A1	20040525	AU 2003-268752	20031003
EP 1571170	A1	20050907	EP 2003-748697	20031003
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 20080138651	A1	20080612	US 2005-532937	20050428
JP 2009215557	A	20090924	JP 2009-67794	20090319
PRIORITY APPLN. INFO.:			JP 2002-315516 A	20021030

JP 2003-343244 A3 20031001
WO 2003-JP12697 W 20031003
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 140:415047
GI

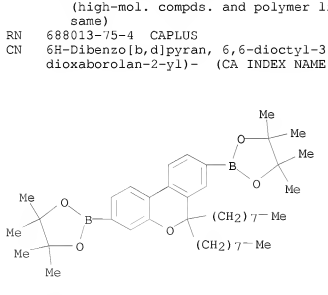
II

AB The invention relates to a high-mol. compds. comprising repeating units represented by the general formula I or II and having number-average mol. wts. of 103-108 in terms of polystyrene: (1) [wherein Ar1 and Ar2 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X1 and X2 are each independently O, S, C(= O), S(= O), SO2, C(R1)(R2), Si(R3)(R4), N(R5), B(R6), P(R7), or P(= O)(R8), with the provisos that X1 and X2 must not be the same and that X1 and Ar2 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar1, and X2 and Ar1 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar2] (2) [wherein Ar3 and Ar4 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X3 and X4 are each independently N, B, P, C(R9), or Si(R10), with the provisos that X3 and X4 must not be the same and that X3 and Ar4 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar3, and X4 and Ar3 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar4].

IT 688013-75-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(high-mol. compds. and polymer light emitting devices made by using the same)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD

(21 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

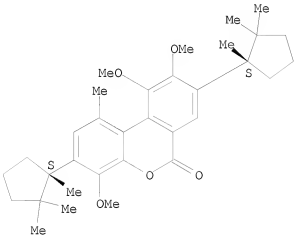
L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:621158 CAPLUS
DOCUMENT NUMBER: 133:350356
TITLE: Nondynamic and Dynamic Kinetic Resolution of Lactones with Stereogenic Centers and Axes: Stereoselective Total Synthesis of Herbertenediol and Mastigophorenes A and B
AUTHOR(S): Bringmann, Gerhard; Pabst, Thomas; Henschel, Petra; Kraus, Juergen; Peters, Karl; Peters, Eva-Maria; Rycroft, David S.; Connolly, Joseph D.
CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet Wuerzburg, Wuerzburg, D-97074, Germany
SOURCE: Journal of the American Chemical Society (2000), 122(38), 9127-9133
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:350356
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

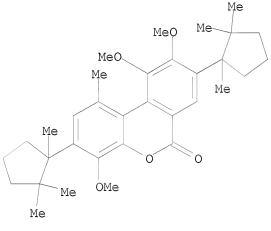
AB The stereoselective total synthesis of the sesquiterpene herbertenediol and of its naturally occurring dimers, mastigophorenes A [(P)-I] and B [(M)-isomer], is described. Following the "lactone concept", the configuration at the biaryl axis was atropo-divergently induced to be P or, optionally, M, by stereocontrolled reductive ring cleavage (diastereomeric ratio up to 97:3) of the configurationally unstable joint biaryl lactone precursor II using the oxazaborolidine-borane system, through dynamic kinetic resolution Mechanistic considerations of the lactone coupling suggested interference by a methoxy group next to the halogen substituent and led to an improvement of the coupling yield from 39 to 87% to give the lactone III. As a new, likewise highly efficient variant of the lactone method, we report for the first time the-now nondynamic-kinetic resolution of a structurally related, but centrochiral "aliphatic-aromatic" lactone, (rac)-IV. Its highly efficient (krel > 300) enantiomer-differentiating Corey-Bakshi-Shibata reduction delivers the centrochiral building block (R,R)-IV in good chemical yield and with excellent stereochem. purity (enantiomeric excess > 99.9%; enrichment of the starting material). The new synthesis of natural herbertenediol confirms its absolute stereostructure as well as that of its dimers, mastigophorenes A and B.
IT 304859-78-7P 305846-95-1P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(nondynamic and dynamic kinetic resolution of lactones with stereogenic centers and axes in stereoselective total synthesis of herbertenediol and mastigophorenes A and B)
RN 304859-78-7 CAPLUS

CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

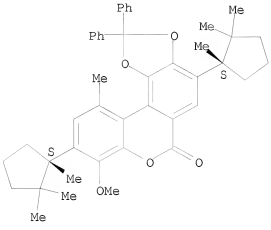


RN 305846-95-1 CAPLUS
CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]-, (3S)- (9CI) (CA INDEX NAME)



IT 304859-85-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(nondynamic and dynamic kinetic resolution of lactones with stereogenic centers and axes in stereoselective total synthesis of herbertenediol and mastigophorenes A and B)
RN 304859-85-6 CAPLUS
CN 6H-[1]Benzopyrano[4,3-e]-1,3-benzodioxol-6-one, 8-methoxy-11-methyl-2,2-diphenyl-4,9-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 53 THERE ARE 53 CAPLUS RECORDS THAT CITE THIS RECORD (55 CITINGS)
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST	52.79	246.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.65	-7.65

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